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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,816	03/03/2004	Terry L. Gilton	M4065.0607/P607-A	1483
45374 DICKSTEIN SI	7590 04/15/200 HAPIRO LLP	EXAMINER		
1825 EYE STR	EET, NW	NGUYEN, TUAN H		
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
			2813	
			MAIL DATE	DELIVERY MODE
			04/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/790,816	GILTON, TERRY L.				
Office Action Summary	Examiner	Art Unit				
	TUAN H. NGUYEN	2813				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>27 M</u>	larch 2008					
	,					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under 2	2x parte Quayre, 1555 C.D. 11, 40	0.0.210.				
Disposition of Claims						
4)⊠ Claim(s) <u>27 and 49-51</u> is/are pending in the ap	4)⊠ Claim(s) <u>27 and 49-51</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>27, 49-51</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
	•					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 27, 49, 51 are rejected under 35 U.S.C. 102(e) as being anticipated by Li (cited ref.).

Li, figs. 3-10 and related text in paragraphs [0027]-[0048] discloses the claimed array of resistance variable memory cells (fig. 10) comprising at least one pillar of stacked material layer on a semiconductor substrate (figs. 3A-3D and related text in [0027]-[0033]), the stacked layers comprise a first electrode 305 and a chalcogenide glass layer 310 having metal (silver) ions diffused therein in contact with the first electrode 305 and being capable of changing resistance under the influence of an applied voltage ([0027]), a metal layer of silver (bottom portion of layer 315) in contact with the chalcogenide glass layer 310, and a second electrode (top portion of layer 315) in contact with the metal layer, the at least one pillar not located within a via (fig. 3D).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 50 is rejected under 35 U.S.C. 103(a) as being unpatentable over Li in view of Campbell et al. (cited refs.).

Li, figs. Fig. 3-10 and related text teaches the claimed memory cells as noted above, except the use of tungsten for forming electrode.

Campbell et al., in a related art as disclosed in paragraph [0032], teaches the use of either tungsten or silver for forming electrode of the resistance variable memory cells.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have replaced silver with tungsten for forming electrode as suggested by Campbell et al. in Li memory cell structure since the substitution of art recognized equivalent are within level of those skilled in the art.

Response to Arguments

Applicant's arguments filed 2/27/08 have been fully considered but they are not persuasive. Since there is no distinction between the claimed metal layer and the second electrode that is also a metal; therefore, the claimed metal layer is considered as a lower portion of the metal electrode layer 315 as shown in fig. 3D of Li reference.

Application/Control Number: 10/790,816 Page 4

Art Unit: 2813

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUAN H. NGUYEN whose telephone number is (571)272-1694. The examiner can normally be reached on M-TH, 6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TUAN H. NGUYEN/

Primary Examiner, Art Unit 2813

Application/Control Number: 10/790,816

Page 5

Art Unit: 2813